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(21) International Application Number: PCT/US99/20840 (22) International Filing Date: 10 September 1999 (10.09.99) (30) Priority Data: 60/099,906 11 September 1998 (11.09.98) US (63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Application US 60/099,906 (CIP) Filed on 11 September 1998 (11.09.98) (71) Applicants (for all designated States except US): THE SCRIPPS RESEARCH INSTITUTE [US/US]; 10550 North Torrey Pines Road, La Jolla, CA 92037 (US). CALIFORNIA INSTITUTE OF TECHNOLOGY [US/US]; 1200 East California Boulevard, Mail Code 210-85, Pasadena, CA 91125 (US). (72) Inventors; and (75) Inventors/Applicants (for US only): DERVAN, Peter [IN/US]; 1235 St. Albans Road, San Marino, CA 91108 (US). GOTTESFELD, Joel, M. [US/US]; 10550 North Torrey Pines Road, La Jolla, CA 92037 (US). LONG, John, J. [US/US]; 158 Dexter Street, Tonawanda, NY 14150 (US).		(74) Agents: LAU, Kawai et al.; Morrison & Foerster LLP, 2000 Pennsylvania Avenue, N.W., Washington, DC 20006-1888 (US). (81) Designated States: AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, EE, GE, HU, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, ZA, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i> (88) Date of publication of the international search report: 25 May 2000 (25.05.00)
(54) Title: REGULATION OF HER2/neu ONCONGENE EXPRESSION BY SYNTHETIC POLYAMIDES (57) Abstract Methods and compositions comprising polyamides capable of binding the minor groove of double-stranded DNA are described for the inhibition or reduction of gene transcription and expression. The polyamides comprise at least four complementary pairs of aromatic carboxamide residues which are selected to specifically contact and/or bind to the nucleotide sequence of a double-stranded DNA target in the promoter region of the target gene. The methods, compositions and polyamides are disclosed for the inhibition of oncogene transcription and expression as well as the treatment of cancer.		